Marco Ellero

List of Publications by Year
in descending order

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Version: 2024-02-01

58	1,564	293460	340414
papers	citations	24 h-index	39 g-index

59	59	59	1086
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	GENERIC-compliant simulations of Brownian multi-particle systems: modeling stochastic lubrication. SeMA Journal, 2022, 79, 165-185.	1.0	2
2	Modeling swelling effects during coffee extraction with smoothed particle hydrodynamics. Physics of Fluids, 2022, 34, .	1.6	11
3	Mesoscopic simulations of inertial drag enhancement and polymer migration in viscoelastic solutions flowing around a confined array of cylinders. Journal of Non-Newtonian Fluid Mechanics, 2022, 305, 104811.	1.0	4
4	The strange case of shear-thinning in non-Brownian suspensions. , 2022, 3, 100032.		0
5	A conservative lubrication dynamics method for the simulation of dense non-colloidal suspensions with particle spin. Journal of Computational Physics, 2021, 427, 110001.	1.9	3
6	Dynamics and rheology of a suspension of super-paramagnetic chains under the combined effect of a shear flow and a rotating magnetic field. Soft Matter, 2021, 17, 6006-6019.	1.2	1
7	Modeling the effect of flow-induced mechanical erosion during coffee filtration. Physics of Fluids, 2021, 33, .	1.6	8
8	Arbitrary flow boundary conditions in smoothed dissipative particle dynamics: A generalized virtual rheometer. Physics of Fluids, 2021, 33, 012006.	1.6	8
9	Advanced Particle-Based Techniques for Complex Fluids and Multiscale Flow Processes. CISM International Centre for Mechanical Sciences, Courses and Lectures, 2020, , 361-392.	0.3	2
10	Numerical investigation of the rheological behavior of a dense particle suspension in a biviscous matrix using a lubrication dynamics method. Journal of Non-Newtonian Fluid Mechanics, 2020, 281, 104312.	1.0	4
11	Shear thickening of a non-colloidal suspension with a viscoelastic matrix. Journal of Fluid Mechanics, 2019, 880, 1070-1094.	1.4	26
12	Mesoscopic modelling and simulation of espresso coffee extraction. Journal of Food Engineering, 2019, 263, 181-194.	2.7	15
13	Everything you always wanted to know about SDPDâ‹† (â‹†but were afraid to ask). Applied Mathematics and Mechanics (English Edition), 2018, 39, 103-124.	1.9	42
14	Normal lubrication force between spherical particles immersed in a shear-thickening fluid. Physics of Fluids, 2018, 30, 123102.	1.6	11
15	Apparent slip mechanism between two spheres based on solvent rheology: Theory and implication for the shear thinning of non-Brownian suspensions. Physical Review Fluids, 2018, 3, .	1.0	5
16	Theory and simulation of the dynamics, deformation, and breakup of a chain of superparamagnetic beads under a rotating magnetic field. Physics of Fluids, 2017, 29, .	1.6	27
17	Planar channel flow of a discontinuous shear-thickening model fluid: Theory and simulation. Physics of Fluids, 2017, 29, .	1.6	15
18	Investigating the causes of shear-thinning in non-colloidal suspensions: Experiments and simulations. Journal of Non-Newtonian Fluid Mechanics, 2017, 248, 1-7.	1.0	34

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19	SPH modeling and simulation of spherical particles interacting in a viscoelastic matrix. Physics of Fluids, 2017, 29, .	1.6	25
20	Simulation of Individual Polymer Chains and Polymer Solutions with Smoothed Dissipative Particle Dynamics. Fluids, 2016, 1, 7.	0.8	20
21	Analytical solution for the lubrication force between two spheres in a bi-viscous fluid. Physics of Fluids, 2016, 28, .	1.6	22
22	Shear Thinning of Noncolloidal Suspensions. Physical Review Letters, 2016, 117, 108001.	2.9	60
23	Rheology and microstructure of non-colloidal suspensions under shear studied with Smoothed Particle Hydrodynamics. Journal of Non-Newtonian Fluid Mechanics, 2016, 233, 37-47.	1.0	45
24	Three-dimensional simulations of dilute and concentrated suspensions using smoothed particle hydrodynamics. Computational Particle Mechanics, 2016, 3, 167-178.	1.5	26
25	Passive Microrheology Simulations Using Stochastic Particle Methods. Procedia IUTAM, 2015, 18, 18-27.	1.2	0
26	SPH simulations of WBC adhesion to the endothelium: the role of haemodynamics and endothelial binding kinetics. Biomechanics and Modeling in Mechanobiology, 2015, 14, 1317-1333.	1.4	9
27	Mesoscopic simulation of the transient behavior of semi-diluted polymer solution in a microchannel following extensional flow. Microfluidics and Nanofluidics, 2014, 16, 257-264.	1.0	9
28	A splitting integration scheme for the SPH simulation of concentrated particle suspensions. Computer Physics Communications, 2014, 185, 53-62.	3.0	56
29	A multiscale SPH particle model of the nearâ€wall dynamics of leukocytes in flow. International Journal for Numerical Methods in Biomedical Engineering, 2014, 30, 83-102.	1.0	12
30	Hydrodynamic shear thickening of particulate suspension under confinement. Journal of Non-Newtonian Fluid Mechanics, 2014, 213, 39-49.	1.0	46
31	FaxÃ©n's theorem for nonsteady motion of a sphere through a compressible linear viscoelastic fluid in arbitrary flow. Physical Review E, 2013, 87, .	0.8	2
32	Transition to Turbulence and Mixing in a Viscoelastic Fluid Flowing Inside a Channel with a Periodic Array of Cylindrical Obstacles. Physical Review Letters, 2013, 110, 174501.	2.9	68
33	Analysis of interpolation schemes for the accurate estimation of energy spectrum in Lagrangian methods. Computers and Fluids, 2013, 82, 122-131.	1.3	7
34	Analysis of intermittency in under-resolved smoothed-particle-hydrodynamics direct numerical simulations of forced compressible turbulence. Physical Review E, 2012, 85, 036708.	0.8	4
35	Multiscale modeling of particle in suspension with smoothed dissipative particle dynamics. Physics of Fluids, 2012, 24, .	1.6	92
36	A SPH-based particle model for computational microrheology. Microfluidics and Nanofluidics, 2012, 13, 249-260.	1.0	39

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37	SPH simulations of a viscoelastic flow around a periodic array of cylinders confined in a channel. Journal of Non-Newtonian Fluid Mechanics, 2012, 167-168, 1-8.	1.0	33
38	SPH simulations of flow around a periodic array of cylinders confined in a channel. International Journal for Numerical Methods in Engineering, 2011, 86, 1027-1040.	1.5	50
39	A splitting scheme for highly dissipative smoothed particle dynamics. Journal of Computational Physics, 2010, 229, 5457-5464.	1.9	35
40	Implicit atomistic viscosities in smoothed particle hydrodynamics. Physical Review E, 2010, 82, 046702.	0.8	17
41	Particle-layering effect in wall-bounded dissipative particle dynamics. Physical Review E, 2010, 82, 066704.	0.8	11
42	Numerical Investigation of the Micromechanical Behavior of DNA Immersed in a Hydrodynamic Flow. , 2010, , 147-160.		0
43	Smoothed particle hydrodynamic model for viscoelastic fluids with thermal fluctuations. Physical Review E, 2009, 79, 056707.	0.8	51
44	Self-diffusion coefficient in smoothed dissipative particle dynamics. Journal of Chemical Physics, 2009, 130, 021101.	1.2	38
45	Consistent scaling of thermal fluctuations in smoothed dissipative particle dynamics. Journal of Chemical Physics, 2009, 130, 034901.	1.2	103
46	Fluid Particle Models for the Simulation ofÂMicrofluids. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2009, , 19-31.	0.1	0
47	Smoothed dissipative particle dynamics model for polymer molecules in suspension. Physical Review E, 2008, 77, 066703.	0.8	55
48	A Fluid Particle Method for the Discretization of the Oldroyd-B Model with Thermal Fluctuations. AIP Conference Proceedings, 2008, , .	0.3	0
49	Inverse kinetic theory for quantum hydrodynamic equations. Physical Review A, 2007, 75, .	1.0	14
50	Unique representation of an inverse-kinetic theory for incompressible Newtonian fluids. Physica A: Statistical Mechanics and Its Applications, 2007, 373, 142-152.	1.2	5
51	Incompressible smoothed particle hydrodynamics. Journal of Computational Physics, 2007, 226, 1731-1752.	1.9	100
52	Multiscale Modeling of Viscoelastic Materials Containing Rigid Nonrotating Inclusions. Multiscale Modeling and Simulation, 2006, 5, 759-785.	0.6	6
53	SPH simulations of transient viscoelastic flows at low Reynolds number. Journal of Non-Newtonian Fluid Mechanics, 2005, 132, 61-72.	1.0	104
54	An inverse kinetic theory for the incompressible Navierâ€“Stokes equations. Physica A: Statistical Mechanics and Its Applications, 2005, 355, 233-250.	1.2	10

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55	Continuous inverse kinetic theory for incompressible fluids. AIP Conference Proceedings, 2005, , .	0.3	7
56	The hybrid BDDFS method: memory saving approach for CONNFFESSIT-type simulations. Journal of Non-Newtonian Fluid Mechanics, 2004, 122, 147-158.	1.0	4
57	Thermodynamically consistent fluid particle model for viscoelastic flows. Physical Review E, 2003, 68, 041504.	0.8	43
58	Viscoelastic flows studied by smoothed particle dynamics. Journal of Non-Newtonian Fluid Mechanics, 2002, 105, 35-51.	1.0	116